



Principals:

Mark D. Fellenzer, P.E., LEED AP John D. Fellenzer, P.E., MBA

Founder: Archie D. Fellenzer, Jr., P.E. (1924 - 2014)

May 22, 2015

FE Project 13-251

BIDDING RFI's

Questions and Responses

1. The A.1 Price / Cost schedule in the solicitation list Item numbers 001, 002, 003, 004 & 005 for a grand total. The section 010000 General Requirements, page 2, 1.2 Statement of Bid Items only list Item 1, 2, & 3. These bid items do not correspond to the bid form. Please advise.

Response: (VA for revision of Price/Cost Schedule.)

2. We would like to ask for a one week extension for the June 5, 2015 @ 2:00 bid date due to the nature of the questions and how the response will affect the estimate. Please advise.

Response: (VA/Contracting - Questions 2, 3, & 58 are related)

3. We would like to ask for a one week extension for the June 8, 2015 @ 2:00 bid date due for the Solicitation # VA528-15-B-0193 Phase 4 as well. Pease advise.

Response: (VA/Contracting - Questions 2, 3, & 58 are related)

4. The feeder from the existing panel EDP-UB to the transformer ATS-B60 is shown as a 2 ½" c with 3- 3/0 1#6 on drawing E605. Drawing E104 shows this also as 2 ½" 3-3/0 1#6 along with other conduits however drawing E123 shows this same feeder as 2 ½" 4-3/0 1#6. Is this a three phase three wire circuit or three phase 4 wire circuit?

Response: Feed to transformer ATS-B60 is to be 3-Wire with ground.

5. Conduit feeder between the existing ATS-BEC is incorrectly marked on drawing E104. The hexagon symbol with an "E" inserted in it is a 2 ½" 4-3/0 1#6. However drawing E605 has the same feeder identified with a hexagon and the letter "LO". Letter "LO" represents a 2 ½" C with 3-250 1#2. Which is correct?

Response: Feeder to transformer BEC is to be type "LO".

6. Conduit feeder between the existing ATS-BCLS is incorrectly marked on drawing E104. The hexagon symbol with an "E" inserted in it is a 2 ½" 4-3/0 1#6. However drawing E605 has the same feeder identified with a hexagon and the letter "LO". Letter "LO" represents a 2 ½" C with 3-250 1#2. Which is correct?

Response: Feeder to transformer BCLS to be type "LO".

7. The drawing E605 indicates the feeders from the corresponding panels EDP-BEC, EMPS1, EDP-BCLS and EDP-CFC as stopping at the pull boxes located on the third level. Is it the intent to install the conduit and conductors to this point under the base bid line item 002? While extending the empty conduits to the remaining floors with the conductor installation under the bid option 1?

Response: For the risers indicated the Base bid is to include the conduit only, from the source panel to the point at which they exit the new chase.

8. Drawing E605 shows the feeder in (hexagon) "C" from EMPS1 to the pull box on the third floor as a 4" conduit with 4-600 1 1/0 but does not identify the feeder between pull boxes on the third level to the pull box on the seventh floor. Does this conduit contain the 4-600 & 1 1/0 or is it conduit only with the feeders stopping at the third level pull box?

Response: Feeder type remains unchanged unless otherwise indicated. Feeder from EMPS1 to Panel 11-237EQ to be Type "C".

9. Can you provide a distance between floors as well as the ceiling heights on the 11th, 12th and 13th floors? The architectural drawings do not provide this information.

Response: 11th Floor: 11' 10" between floors, 8' drop ceiling (avg height)

12th Floor: 10' 8" between floors 13th Floor: 15' between floors

10. Can you provide a panel schedule for the existing panel EMPS1? Are the breakers for the new loads existing or new? If new please provide the manufacture of the existing equipment as well as model numbers.

Response: Existing panel schedule is not available. Use existing breakers to feed loads.

11. Drawing E-023 main switchboard shows 6 locations where the existing phase & neutral instantaneous & time overcurrent relays, ammeter, ammeter switch, CT's, and associated equipment are modified. Is this work performed under the Phase 3 bid, Phase 4 bid or has this work already been completed? If this work is to be done under this Solicitation please advise as to whom the manufacture of the existing equipment is and if the work can be done during normal work hours? Also the Note 7 on drawing E-023 directs us to "see partial plan on drawing E-721 for relay installation phasing" Drawing E-721 is not included with the Phase 3 or Phase 4 Solicitations. Please explain the scope of work associated with this main switchboard as well as where this equipment is located?

Response: See Drawing E-001 for Legend of Line types for identifications of work within the

scope of Phase 3. Modifications to the Medium Voltage Switchgear including the

replacement of the relays are not part of the work included in Phase 3.

12. Panel 12-240 as shown on E605 12th floor is not listed in the panel equipment schedule list. Please clarify the size and amperage.

Response: Provide panel 12-240 as a 200A MCB, 42 pole panel with spare 20A single pole

breakers consistent with the panels indicated for this project and as shown on

drawings E-122, E-602, E-605, and E-902.

13. Is a disconnect switch required on the primary side of the 45 KVA XFMR for the ATS-B60? The riser diagram on drawing E605 nor the detail 2 on E103 show this. The feeder to this equipment is over 200' in length. Please advise.

Response: Provide as indicated.

14. The feeder marked with the hexagon "EO" for the 45 KVA XFMR in question #12 appears to be oversized. Is this based on the distance due to a potential voltage drop or can the feeder conductor size be reduced?

Response: Provide as indicated.

15. Does the breaker in panel EDP-UB exist to be reused or are we responsible to provide a new breaker? Please provide the manufacture name and model number if new is required.

Response: Provide new breaker in panel.

16. Note 1 on drawing E103 is requiring the need to install a new feeder within the existing conduit consisting of 4-600 1 1/0 for ATS #BREQ. This note #1 is not shown on this plan. Please identify the location of this work.

Response: See Drawing E-001 for Legend of Line Types for identifications of work within the scope of Phase 3. See revised drawing E-103. ATS-BREQ is not part of Phase 3.

17. Drawing E103, room U11 show ATS1, ATS 2, (2) 45 KVA XFMRs, new disconnects and conduits extending to two pull boxes in the corridor just outside of room U3 are labeled as new. Is this work in our scope under the phase 3 bid?

Response: See Revised drawing E-103.

18. Drawing E103 shows several areas that need to "Brick Up Opening to Match Existing" in a storage room. Is this part of our scope or has this work already been performed?

Response: See Drawing E-001 for Legend of Line Types for identifications of work within the scope of Phase 3. See revised drawing E-103. The brickwork is not part of Phase 3.

19. Drawing E103 Storage Room shows a new 400 amp/3P enclosed CB adjacent an existing 200 amp /3P CB. Is this in our scope?

Response: See Drawing E-001 for Legend of Line Types for identifications of work within the scope of Phase 3.

20. Drawing E103 shows additional branch wiring for the generator pump CP and return pump RP-1. Is this work under the Phase 3 Bid?

Response: See Drawing E-001 for Legend of Line Types for identifications of work within the scope of Phase 3. See revised drawing E-103.

21. Drawings E110 shows the symbol xxxxx at 10 existing panels. These xxxxx's represent "panel to be replaced" according to the legend. Are these panels being replaced under the phase 3 work?

Response: See drawing E-001for clarification of line types and demolition drawings on sheets E-601, E-723, E-724 for scope of work on this level.

22. Drawings E110-E122 shows 7 sets of 6#10, 3#10 103/4" EMT from each of the new panels at the elevator wall to a specific point out in the corridor. Do these branch circuits dead end in a pull box or are they terminated?

Response: See Detail 2 on E-701 for additional information regarding the branch circuits.

23. Drawings E110-E122 show light lined branch wiring consisting of 7 sets of 6#10, 3#10 1 3/4". Is it safe to assume this work is in phase 4 or has already been completed?

Response: See Drawing E-001 for Legend of Line Types for identifications of work within the scope of Phase 3.

24. Several drawings show notes pointing to new equipment. These are drawn with a "light line". The light line on drawing E-001 represents future work. Has this work already been completed? Is it under another contract? If so can this information be deleted from these phase 3 drawings? The same overlap appears on the phase 4 documents too. Please advise

Response: Coordinate work indicated with the line types represented on Drawing E-001 for identifications of work within the scope of Phase 3.

25. Drawing E803 power panel EDP-CEC appears to be new. Does this panel replace the existing panel in its entirety?

Response: Panel EDP-CEC is existing. Provide new feeders as indicated.

26. Panel EDP-CEC on E803 shows the low riser "C" critical feeder incorporating panels B-CEC, 1-CEC, 2-CEC, 3-CEC, 4-CEC & 5-CEC. The riser shows this feeder stopping at 6-CEC. Please advise if panel 6-CEC is on breaker location #2, 4, 6 or #1, 3, 5?

Response: Connect as indicated on the Riser Diagrams.

27. Can you provide a panel schedule for panelboard EDP-CEC? Are the breakers existing or new? If new what is the existing manufacture of the equipment?

Response: Panel EDP-CEC and breakers are existing. See schedule on Drawing E-803.

28. Drawing E602 New Emergency Power One Line Diagram indicates new ATS and disconnects in building 3 (A.R.E.), new 100 KW generators G1, G2, G3, new ATS for existing OR chillers 1 & 2 and new equipment at the Boiler Plant. Is this work to be included in the Phase 3 Solicitation or has this work already been completed under a different contract? If this work is not in the scope please issue a new drawing outlining this is NIC.

Response: See Drawing E-001 for clarification of line types. Additional certification may be found by observation of the Point of Connection & Point of Disconnect where provided.

29. Drawing E605 panel 11-237EQ is feeding panels 11-237 (MER BEQ), 11-237A AEQ, 11-237 (MER AEQ) and 11-237 (MER CEQ) with conduit size "F" which represents a 2" 4#1 1#6. Drawing E121 shows these panels being wired with conduit "E" which is a 2 ½" 4-3/0 1#4. What is the correct size?

Response: Provide 3/0 feeders as indicated on the riser diagram.

30. Drawing E106 details 1 & 2 both show a new 200 amp safety switch SW-BEQ, new 400 amp enclosed breaker EB-BEQ, new 400 amp transfer switch ATS-BEQ, new panelboard EDP-BEQ and a new 800 amp panel EDP-Main-EQ all in room S16. During the walk thru it was noticed that this equipment was already in place. Please indicate if this equipment is not under this scope of work.

Response: See E-001 & E-702

31. Drawing E103 show several conduit runs that are requiring "X" which is Seismic bracing. Are these reference point left over from an earlier version of the drawings or are we responsible to provided seismic supports for conduits we did not install? Please advise.

Response: See Drawings and Specification Section 26 05 48 for information regarding the

evaluation and provision for seismic requirements of existing equipment. New seismic rated attachment and bracing of existing conduit and equipment is to be provided as part of this work where indicated on the drawings or as required by

the contractor's Delegated-Design Submittal.

32. Drawing E810 list panels LS-EDP, CR-EDP and EQ-EDP. Where are these panels located and are they included in phase 3?

Response: See Drawing E-123 for the location of the existing panels LS-EDP, CR-EDP and

DQ-EDP.

33. Drawing E605 Panel EMPS1 shows a conduit to 7-244E. Riser diagram on E724 shows a feeder from the new R437 Distribution switchboard in room S19 to feed the panel 7-244. Is this the same panel the drawing EMPS1 is referencing? If so can the engineer issue an addendum sketch removing this from panel EMPS1?

Response: Panel 7-244E is not the same as Panel 7-244.

34. Drawing E106, detail 1, shows the existing 6 sets of 4-600 & 1-350 in 4" conduit to the existing switchboard R336 from the pad mount transformer. Detail 2 on the same drawing shows these conduits stubbing up at the opposite end from where they currently rest and enter the new

switchboard BB-R336. Are these secondary feeders installed underground? If they are, is it the intent to saw cut the existing floor, remove the concrete, add additional conduit and extend to the new location beneath the BB-R336 switchboard?

Response: Incoming secondary feeders to switchboard are not underground.

35. If the question #27 answer is underground, what is the time allowed to shut this switchboard down to allow for all excavation, re-routing of conduits, backfill, new concrete floor and housekeeping pad and setting the new switchboard? The specifications indicate no shut down shall be longer than 8 hours. It will take at least 8 hours for the concrete to set depending on the environment. Please provide a detailed outline of the sequence for this switchgear replacement.

Response: Question #27 does not correspond to this question. See response to question 34.

36. In addition to relocating the conduits in question #27, can you provide the distance of the 6 sets of secondary feeders from the existing R336 switchboard location as shown in detail 1 to the existing pad mount transformer? The reason for this is because if the conduits need to be extended then most likely the secondaries will be to short and also will have to be replaced. Please advise.

Response: Question 27 does not relate to this question. See response to question 34.

37. The same questions #27, 28 & 29 also apply to the replaced switchboard BA-R437. Please advise.

Response: Questions 27, 28 & 29 do not relate to this question. See response to question 34.

38. The same questions #27, 28 & 29 are also applicable to the replacement of the switchboard "C" in Room S19 under Bid Option#2. Please advise.

Response: Questions 27, 28 & 29 do not relate to this question. See response to question 34.

39. Drawing E602 shows a bold line going from existing panel EMPS2 to panel SB-142AEQ. This feeder is not identified with a letter size. The panel SB-142AEQ is not on the panel schedule either. Please indicate what size feeder, what size panel and provide a panel schedule. Also is the breaker in EMDPS2 existing?

Response: Addition information for panel SB-142 EQ can be found on Drawings E-810 and E-903.

40. Drawing E723 detail 1 shows the existing feeder between panels SB-275 and SB-275A being replaced. Detail 2 shows this feeder as existing. Is the feeder and panel SB-275A being replaced? If so what size is it?

Response: See Revised drawing E-723 showing panel SB-275A and corresponding feeder as

existing to remain.

41. Drawing E123 Room S22 has notes pointing to "New Sub-Station S22 Section A & B. Is this equipment installed under a separate contract or is related to this Phase 3 project?

Response: See notes on Drawing E-123 and schedule on Drawing E-821 regarding the

replacement of circuit breakers in switchboard S-22.

42. Room S22 details on E123 shows a new transformer #OR ICU with 4" housekeeping pad and associated disconnect switch. Is this equipment furnished and installed under the phase 3 work? If so please indicate what riser diagram references this work, what is the size of the transformer and the disconnect?

Response: Transformer OR-ICU was installed as part of Phase 1.

43. Room S22 detail on drawing E123 show a new transformer #CEC with 4" housekeeping pad and a disconnect switch #CEC. Is this work furnished and installed under phase 3? If so please indicate the size of the transformer and disconnect as well as what riser diagram pertains to this work.

Response: Transformer OR-CEC is existing and was installed as part of Phase 1.

44. Drawing E123 detail 3 Room S22 show a bold line panelboard EDP-CEC. Is this a replacement or existing to remain panelboard.

Response: The line from existing panel EQP-CEC represents the load feeders from the

panel. See Drawings E-602, E-605.

45. Drawing E810 shows three power panels (LS-EDP, CR-EDP, EQ-EDP) Please explain where these are located and if they are in the phase 3 scope of work. They do not appear on a riser diagram.

Response: See Drawing E-602 for information on the existing panels LS-EDP, CR-EDP and

EQ-EDP.

46. Drawing E107 detail 1 shows existing panelboard SB-142A (E) to be replaced and renamed SB-142AEQ. The riser diagram on E602 shows a bold line leaving panel EMPS2 and feeding SB-142AEQ. Is this feeder new for this panel or is it a replacement?

Response: N/A (REPEATED Question #39)

47. Drawing E723 shows panel SB-275 being fed from R336 Distribution. The feeder size is marked "A" which is 2-4" 4-600 1 1/0. The breaker is sized at 400 amps. The notes on drawing E106 detail 1 show this panels as existing to be replaced. Please clarify this scope of work.

Response: Replace SB-275 as indicated.

48. Drawing E723 shows a tie between switchboard BB and Switchboard BA but does not indicate what this is. Will this be bussing or overhead copper conductors in EMT or cable tray? Please identify what this wiring method and size will be?

Response: Switchboard TIE to be bussed or sized to match incoming feeders to switchboard BA and BB.

49. Both drawings E106 and E107, detail #2 show a tentative location of temporary switchboard T-1. Can you provide a description of what this temporary switchboard consist of and will there be two or just one that is relocated to room S19?

Response: Temporary switchboards are to be as required to provide continued electrical service and circuit protection to all loads and feeder served by each switchboard as shown on drawings, indicted in the specifications and in accordance with the temporary power plan developed by the contractor in coordination with the VA COR. See individual switchboard replacement drawings for specific information

for each switchboard.

51. Drawing E121 indicates the feeders from panelboard 11-237EQ to panelboard 11-237 MERCEQ, 11-237 MER-BEQ, 11-237 MER AEQ 11-237A-AEQ as being fed with feeder type "E" Feeder type E on E001 is a 2 ½" 4-3/0 1#4. The riser diagram on E605 shows these exact panels being fed with feeder "F" which is a 2" 4#1 1#6. What is the correct size feeder? The four panels listed are only 100 amp MCB too.

Response: N/A (Repeat of question #29)

52. The work mentioned in question 51 is not outlined as being in Bid Option 1 however the riser diagram shows this area is. Please advise if the 11th floor work is in Bid option 1.

Response: Panes and feeders indicated on Drawing E-121 are part of Bid Option 1.

53. Drawing E023 existing power demolition one line riser diagram detail 1 shows a #5 keyed note inside the Building 2 Switchboard S-22. Are we responsible for replacing breakers in this Bldg 2 Switchboard? If not please remove the note from the plans.

Response: Provide as indicated.

54. Drawing E023 keyed not 6 is asking us to remove Building 4 Boiler Room NCC and to reference drawing E7272. This drawing does not exist with this set of plans. Is this scope part of this bid? If not please delete this note and MCC work from the plans.

Response: See revised drawing E-103 indicating that this MCC was replaced in a prior Phase.

55. Drawing E023 shows two switchboards D & A with keyed notes 2 & 3 indicating these are to be removed. Please indicate if these are not in this scope of work under phase 3?

Response: See line type legend on Drawing E-001 for identification of work within Phase 3. Switchboards in A & D wings are provided in Phase 4.

56. Riser diagram E605 Bid Option 1 shows the feeder between panel 11-CEC and 12-CEC as a type "L". Feeder L according to E001 is a 2 ½" conduit with 4-250 1# 6. The detail 1 on E122 shows this panel being fed with 4" conduit 4-350 1#2. What is the correct size feeder?

Response: Provide as indicted on the Riser Diagram on Drawing E-605.

57. As in question 56, the same conflict pertains to panel 12-BCLS. Please identify the correct feeder size.

Response: Provide as indicted on the Riser Diagram on Drawing E-605.

58. Once these questions are answered in may raise an issue for further questions. Is it possible to extend the deadline for questions once these have been issued?

Response: (VA/Contracting - Questions 2, 3, & 58 are related)

59. Solicitation document page 6 of 47 Schedule A.1 Price cost schedule item # 004 Option #2 indicate replacement of Min switchboard B but whereas bid drawings E-023 keyed note 4 & E-723 indicate the replacement of Main switchboard B in base bid. Please clarify which is correct.

Response: (VA) See Question #1.

Questions from 19 May 15 RFI (Seawolf Construction Corp.)

60. Bid drawing E106 (Building 1 phase 3 base bid Switchboard B New Plan: Indicate provision of Temporary switchboard T1 during replacement of existing switchboard B sections BB & BA with respective new Switchboard B sections. Please provide us the detailed drawing & specification of this temporary switchboard T1.

Response: See response to Question #49.

61. Building E107 (Building 1 phase 3 bid option#2 switchboard C New Plan: Indicate provision of Temporary switchboard during replacement of existing switchboard C sections A & B with respective new Switchboard C sections. Please provide us the detailed drawing & specification of this temporary switchboard.

Response: See response to Question #49.

62. Bid Drawing E-602 (Electrical new one line diagram) Keyed Note 2: Please provide us the sizes of all the new conduits in new chases.

Response: Sizes are as indicated on Drawing E-605.

63. Bid drawing E-601 & E-602(Electrical demolition & new one-line diagram): Please clarify whether demo & providing new generators, paralleling switchgear ATS's & connected electrical feeders are part of phase 3.

Response: See line type legend on Drawing E-001 for identification of work within Phase 3. Generators were installed in Phase 2.

64. Bid Drawing E-603: Keyed notes: 1, 2, C, D, E, L & LO: No conduit & wire sizes indicated for these keyed notes. Please provide the feeder sizes.

Response: Please clarify as there is no Drawing E-603 in Phase 3. See conduit schedule on Drawing E-001 for schedule of wire and conduit for all feeders not otherwise identified on each drawing.